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## STANDARD PLANS FOR CONSTRUCTION DF NEW DONBASS MINES

L. Z. Leytman

Considering the large number of mines under construction in the Donets Basin at the same time, standard plans have been worked out for organizing the construction of three types of mines with the following characteristics:

Planned Capacity of Mine per Yr (1,000 tons)	Depth of Shafts (m)	Cost of Construc- tion and Assembly Work (million ru- bles)	Mine Con- struction (1,000 cu m)	
300	200	90.0	69.8	
600	415	134.8	91.8	
1.000	730	239.7	196.2	

Length of specific stages of construction have been established as follows:

Length of Construction (mo)

Type of Mine (1,000 tons)	Development	Sinking of Mine Shafts	Other Construction Work	Total
. 300	5	8	23	36
600	6	15	27	48
1,000	7	27	32 .	- 66

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In order to carry out construction in the indicated time, the following system of capital investment was established:

	Investment (million rubles)				
Period of Con- struction (yr)	300,000- Ton Mine	600,000- Ton Mine	One -Million- Ton Mine		
First	24.0	28.0	32.5		
Second	30.0	34.0	36.0		
Third	36.0	41.5	39.2		
Fourth		31.3	53.0		
Fifth			58.0		
Sixth			21.0		
SIXON					
Total	90.0	134.8	239.7		

Standard organization of construction planning provides for construction of shafts in a short time. This can be accomplished with a development period of 5-7 months and a vertical shaft sinking period of 8-27 months (depending on the depth of the shaft) and with shaft sinking at an average rate of 25-27 meters per month.

Considerable capital investment is required for the development period: 9.7 million rubles, or an average of 2 million rubles per month for the 5-month development period of a 300,000-ton-capacity mine; 13.2 million rubles, or 2.2 million rubles per month for the 6-month development period of a 600,000-ton-capacity mine; and 20 million rubles, or 2.86 million rubles per month for the 7-month development period of a million-ton-capacity mine.

The following table distributes capital investment in percent of total cost over the years involved.

	•		Yea:	rs	•		
Type of Mine (1,000 t)	lst	<u>2d</u>	<u>3d</u>	4th	5th	<u>6th</u>	Total
300	26.8	33.2	40				100.0
600	20.8	25.2.	30.8	23.2			100.0
1,000	13.6	15.0	16.4	22.0	24.2	8.8	100.0

In 1949, the speed of sinking shafts was 25-30 linear meters per month in the "Sutogan," "Mariya-Glubokaya," No 1/ltis "Kivorozh'ye," No 5-bis "Trudovskaya," "Lotikovo," and No 9 "Snezhyanskaya" mines. The rate of 30-40 linear meters per month during 17 face months (zaboye-mesyatsev) was reached in the No 5-bis "Trudovskaya," "Artem-2," "Mushketovskaya Vertikal'naya," No 2 "Grodovskaya," "Proletarskaya Glubokaya," and "Kapital'naya" mines and the rate of

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40-50 linear meters per month was achieved by the "Tsentral'naya-Zavodskaya," No 10-bis (Kuybyshevugol' Trust), and imeni F. Kon mines. On the whole, more than 1,200 linear meters of vertical shafts were sunk in 1949 in mines of Glavdonbass-shakhstroy (Main Administration of Donbass Mine Construction) at the rate of over 24 Tinear meters per month.

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